

jection I made to them grew out of the fact that they took no pains to discriminate between my friends and my foes; all insects excepting one or two, perhaps, went the same way with them. They had no taste for the Striped Potato Beetle (Lytta vittata, Fabr.); and, although I saw them "bolt" an occasional Squash Bug (Coreus tristis, DeGeer), it didn't seem to go down with anything of a relish. They will feed on squash bugs, however, as I know from having had some vines entirely cleared by them early in the season; but I think they only do so in cases where other insects are extremely scarce. I could note no loss to my fall brood of squash bugs, attributable to their being in the garden.

Contrary to the general supposition, there is but little of the Gipsey spirit about the toad, for having chosen his beat, he seldom goes beyond it, or changes his location during the summer. One may settle him for the season at almost any particular locality by simply penning him up in a temporary enclosure for a few days, and then removing the enclosure without disturbing him. I have often established them in different parts of my garden on this plan, and but seldom failed to find them in the neighborhood of their respective stations every evening.

A toad brought into a garden and immediately set at liberty, will usually strike for some other parts the first night; but a few days' pen-

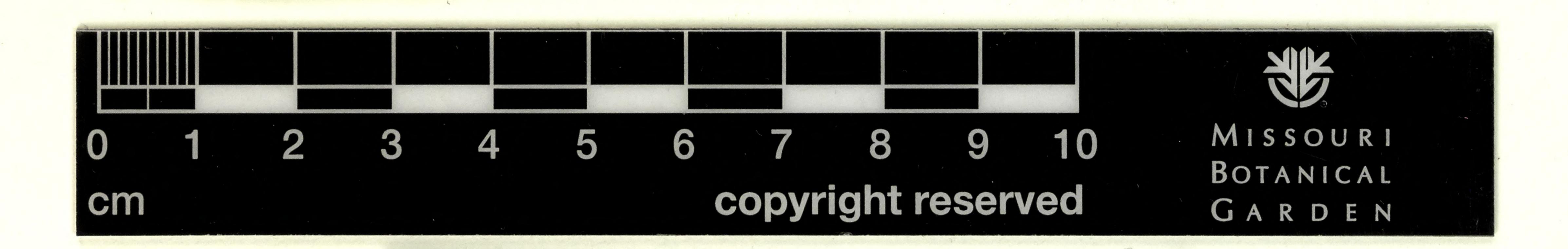
tinct interests, when but one legitimately exists; or, in other words, striving to lead those who live by an exchange of products to believe that they are a distinct people—is not only foolish to the last degree, but extremely injurious to all. Such reflections, and nothing else, deterred me from undertaking the publication of a "Southern Entomologist" four months ago. I saw that the American Entomologist was all that the Southern people could desire, and so gave up the idea in the belief that they would patronize it, and thus derive greater benefits than they could from a publication purely local.

ENTOMOLOGICAL JOTTINGS.

[We propose to publish from time to time, under the above heading, such extracts from the letters of our correspondents as contain entomological facts worthy to be recorded, on account either of their scientific or of their practical importance. We hope our readers will contribute each their several mites towards the general fund; and in case they are not perfectly certain of the names of the insects, the peculiarities of which are to be mentioned, will send specimens along in order that each species may be duly identified.]

Is the New York Weevil the Cause of Pear Blight?—Chicago, Ills., March 31st, 1870.

—A gentleman of this city, formerly residing at Lake Forest, a suburb of Chicago, communicated to me a few days since, some facts he has observed in regard to the "pear tree blight," from which he has formed the theory that the blight is caused solely by the New York Weevil (Ithycerus noveboracensis, Forster). His observations extended over some five years, and were



IOWA BUTTERFLIES.

The following species, collected in Grinnell, except as otherwise stated, are to be added to the Preliminary List of Iowa species reported by Mr. Samuel H. Scudder in Vol. I, Part 2, of the Transactions of the Chicago Academy of Sciences. Grinnell is on high rolling prairie, the summit level between the Mississippi and Des Moines Rivers, by the Rock Island and Pacific Railroad:

Papilio Turnus, Linn.—Yellow variety. Common.

Papilio Asterias, Fabr.—Common.

Papilio Philenor, Fabr.—Grinnell and Keokuk. Differs from Bolsduval's description in primaries not greenish; tail not whitish at base. Differs from Say's in first thigh having a conspicuous yellow line; crenæ yellowish-white. Two specimens—that from Grinnell expands near 4 inches.

Papilio Thoas, Linn.—Keokuk and Davenport.

Papilio Ajax, var. Marcellus, Cram.—Keokuk and Davenport.

Davenport.

Argynnis Myrina, Cram.—Add to Boisduval's description—underside of primaries with three dull whitish spaces, two of which flank the middle nacre, and are each divided by a transverse brown line. Antennæ not conspicuously annulated with white. Expands 2.3.

Argympic

SOUTHERN NOTES.


BY J. PARISH STELLE, OF TENNESSEE.

AN EXPERIMENT FOR TOBACCO-GROWERS.—I visited the plantation of a Mr. George Harris, in West Tennessee, last summer, and found him protecting his crop of tobacco from the ravages of the Tobacco Worm (Sphinx 5-maculata, Haw.) in a most novel kind of way. A border some six or eight feet wide, and running entirely around his tobacco-patch, was thickly grown with Jimpson or Jamestown weed (Datura stramonium, Linn.), the seed having been sown, I suppose, for I neglected to ask. At the time of my visit the weeds were in full bloom, and on every third day Mr. Harris, so he told me, went among, them and dropped a little arsenic into the bell of each flower. The hawk moths came at night to deposit their eggs upon the tobacco plants, but when they reached the border they could not think of crossing without first having a dip into their favorite flowers; and, as a consequence—to use Mr. Harris's own expression—"two minutes later found them laid out to dry." He assured me that on some mornings hundreds of dead moths does of his

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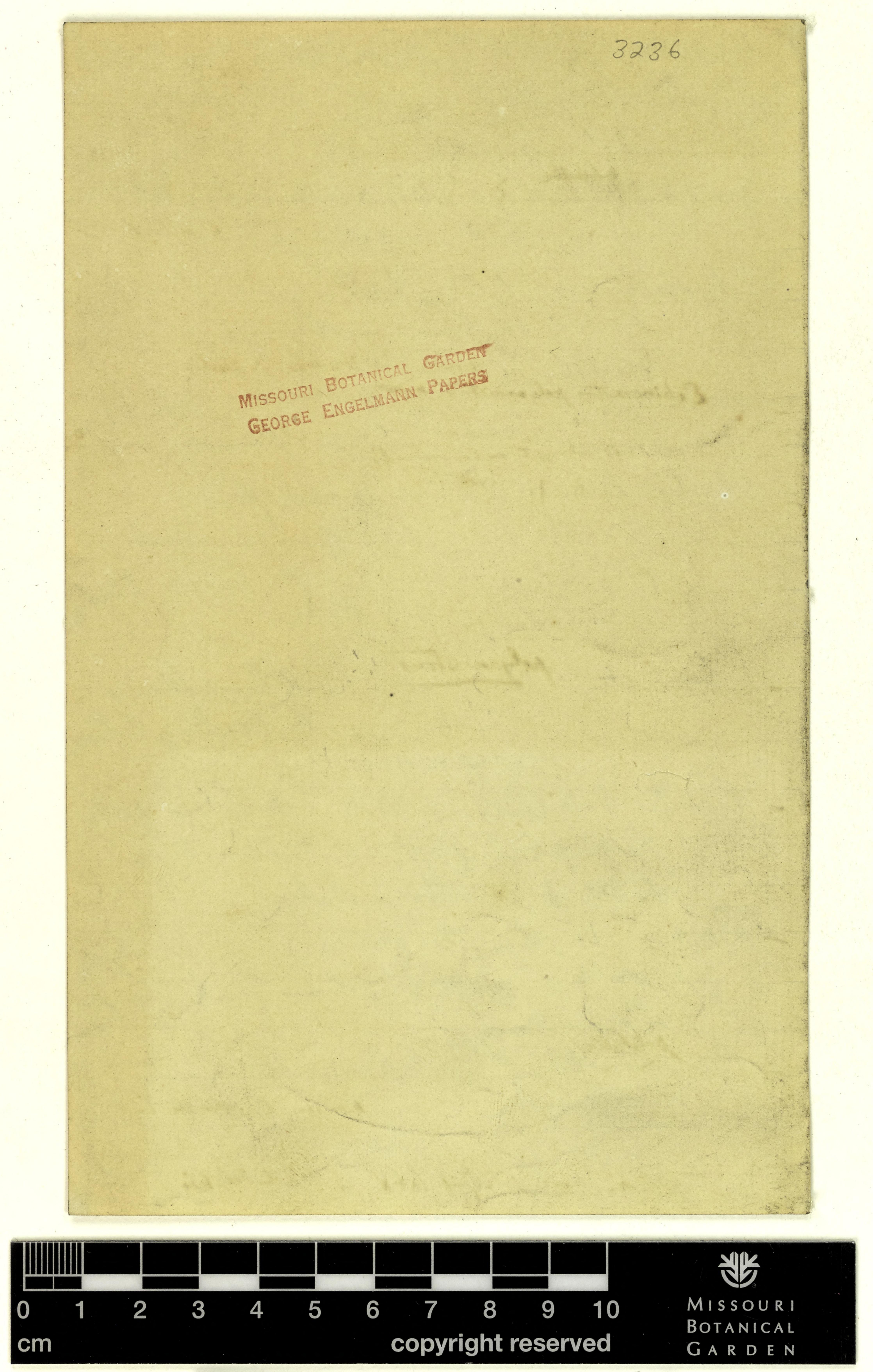


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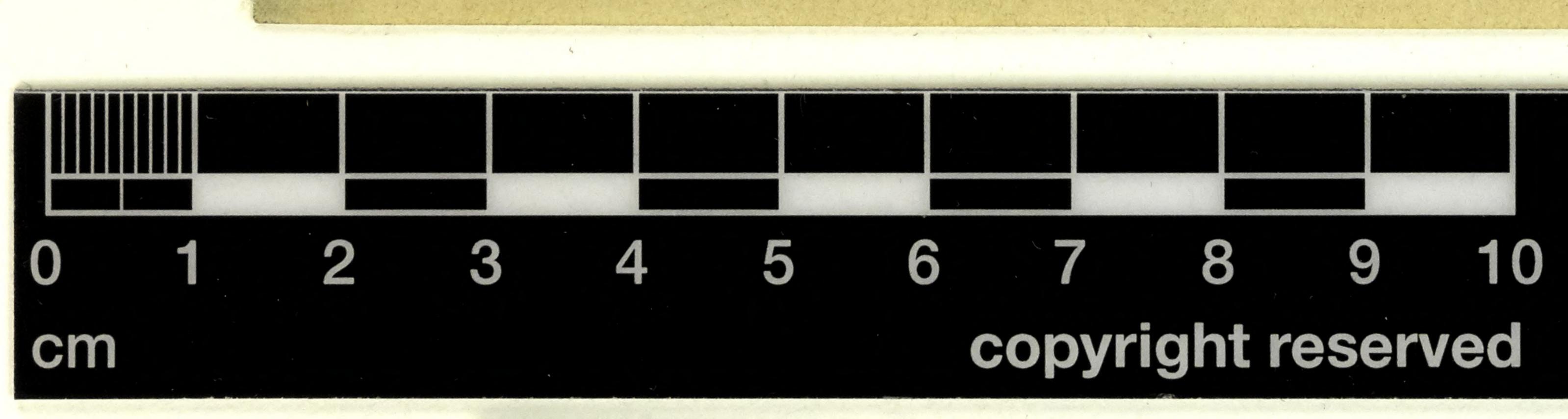
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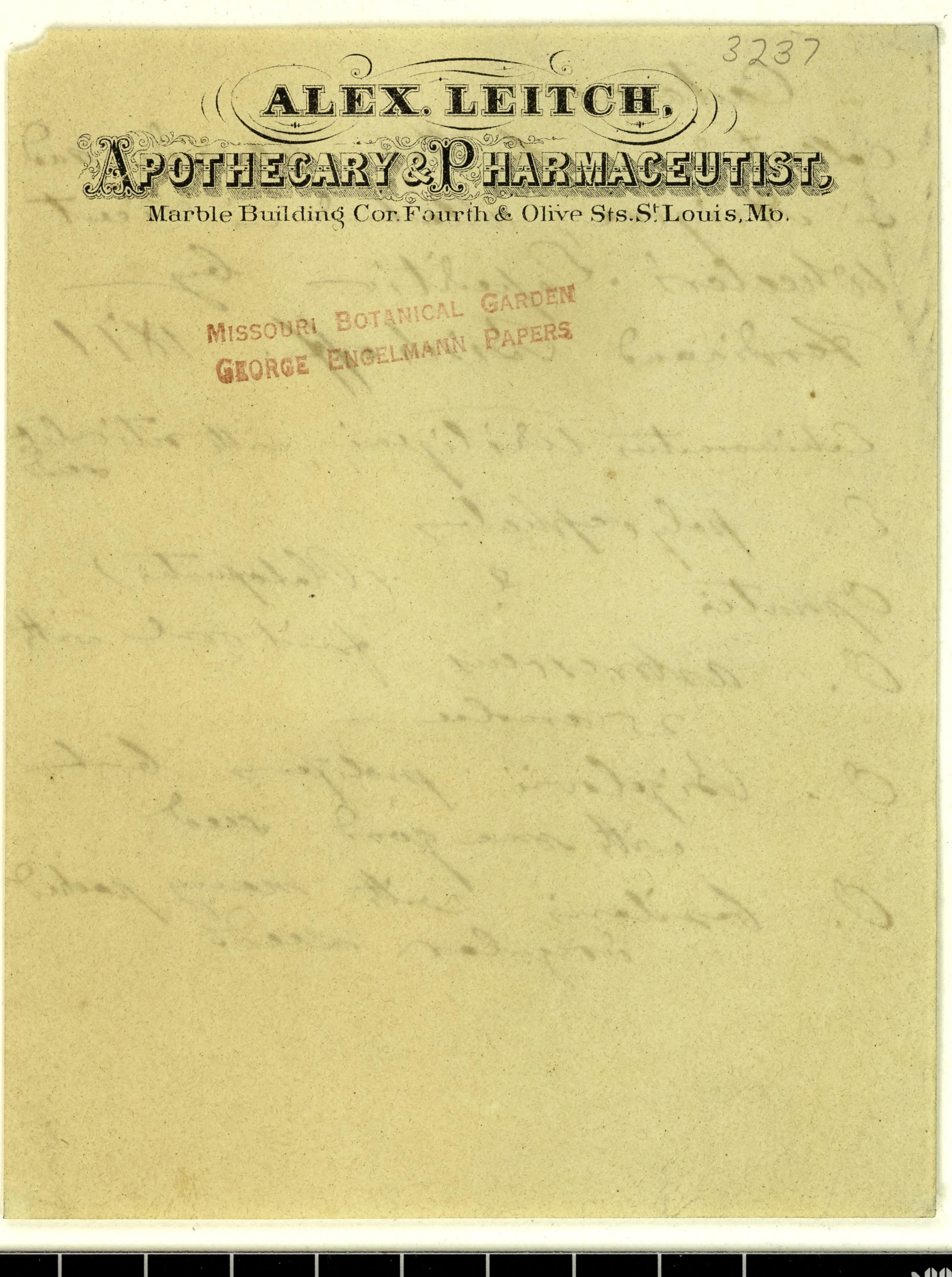
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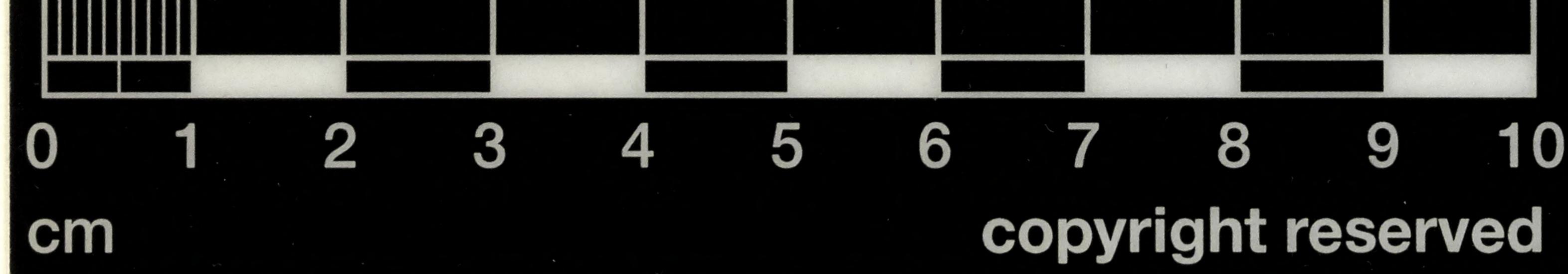
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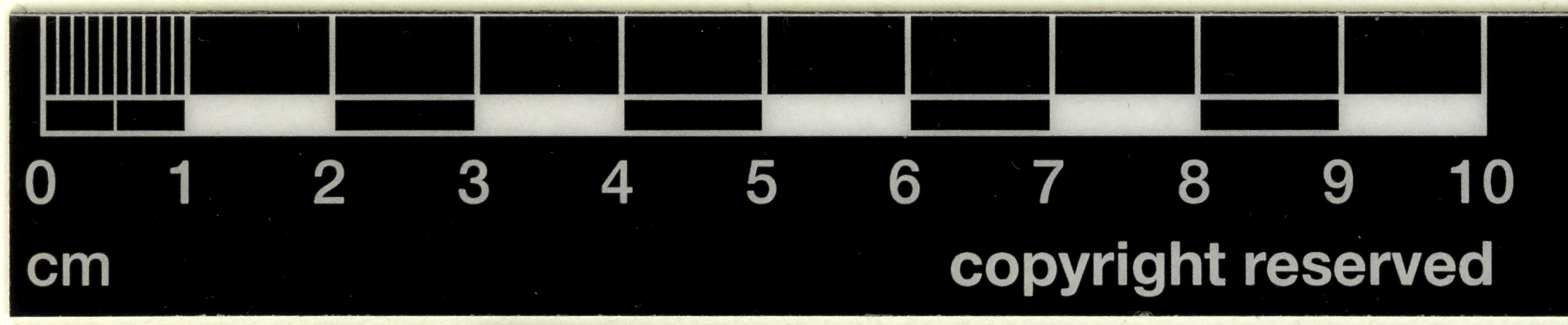


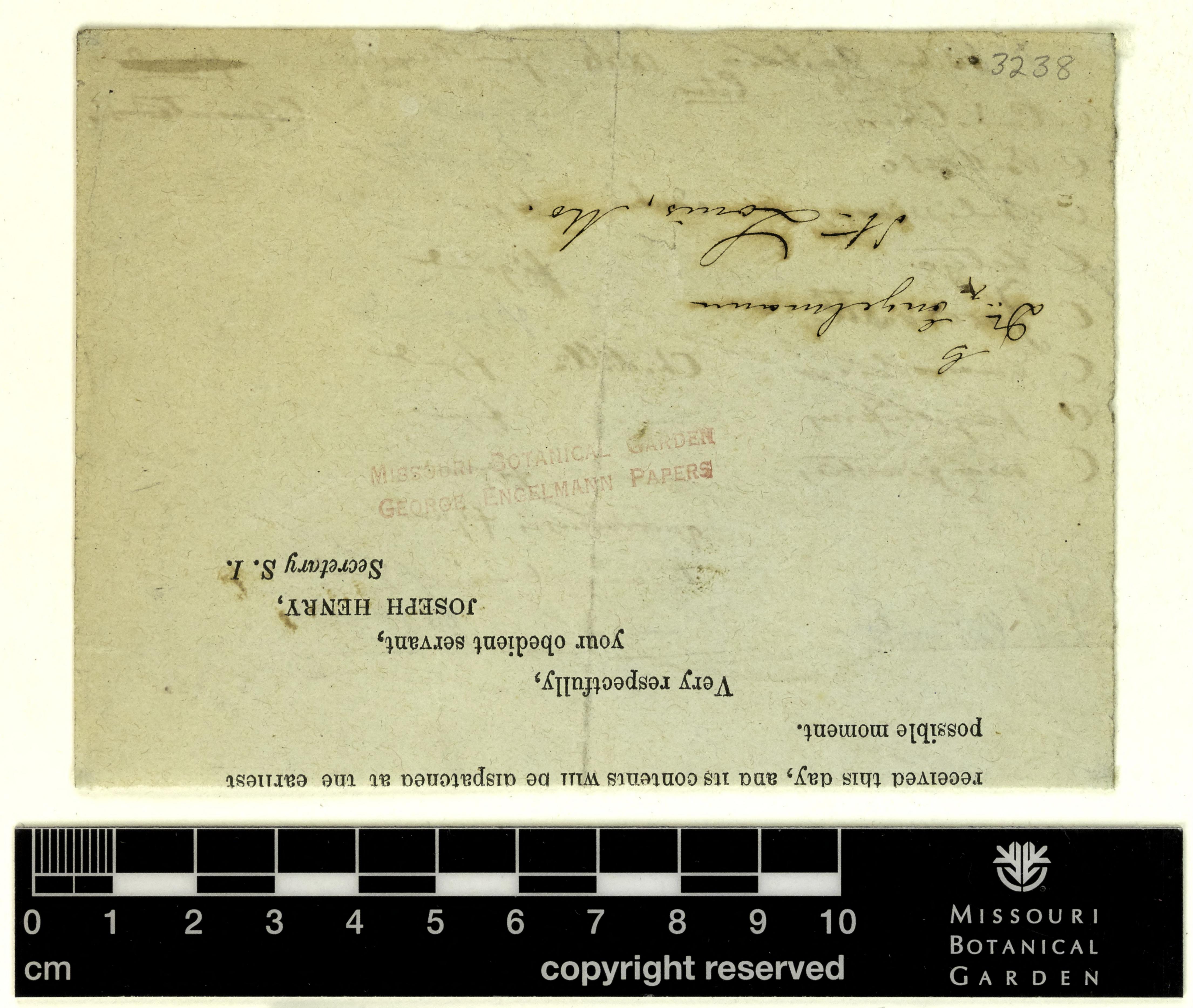


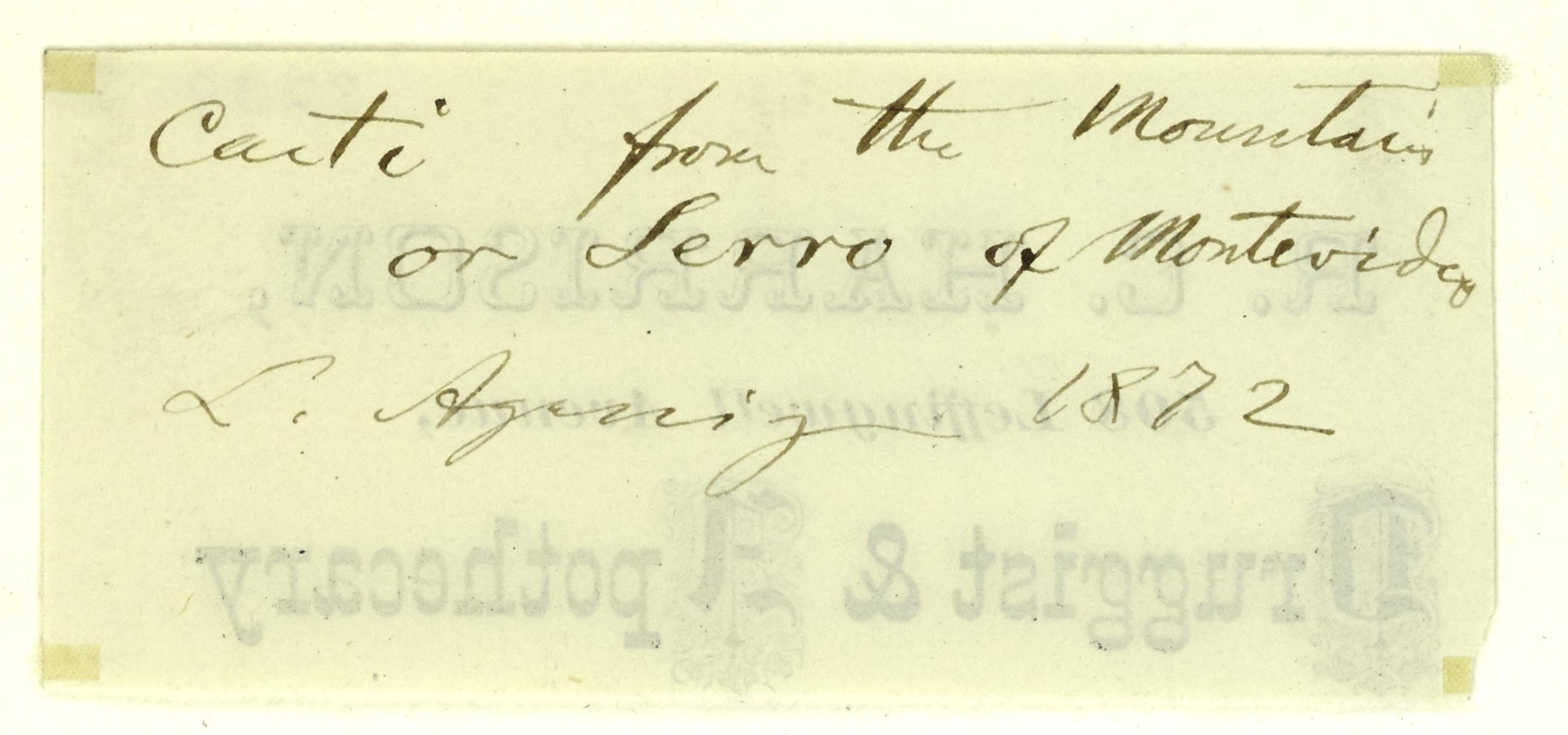


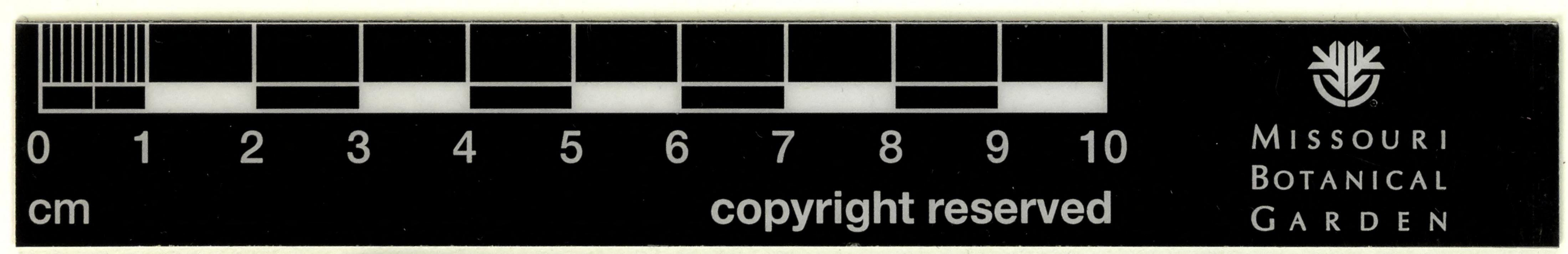


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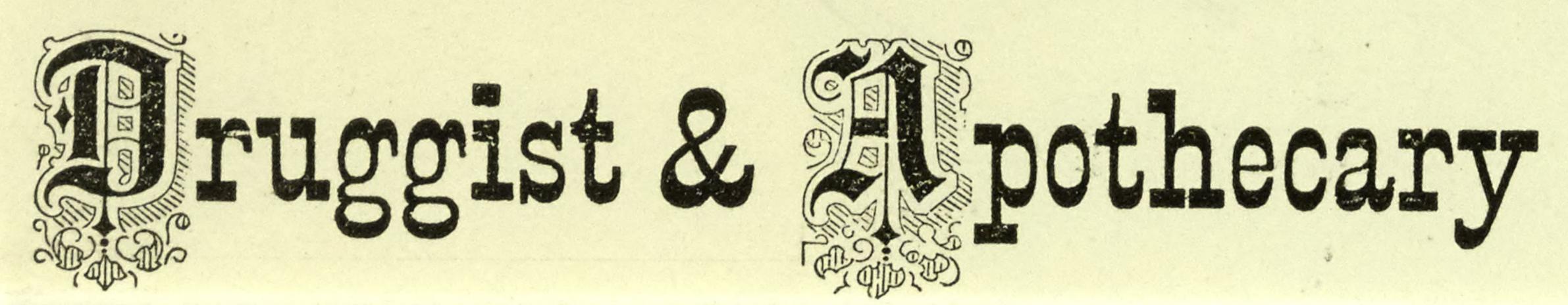


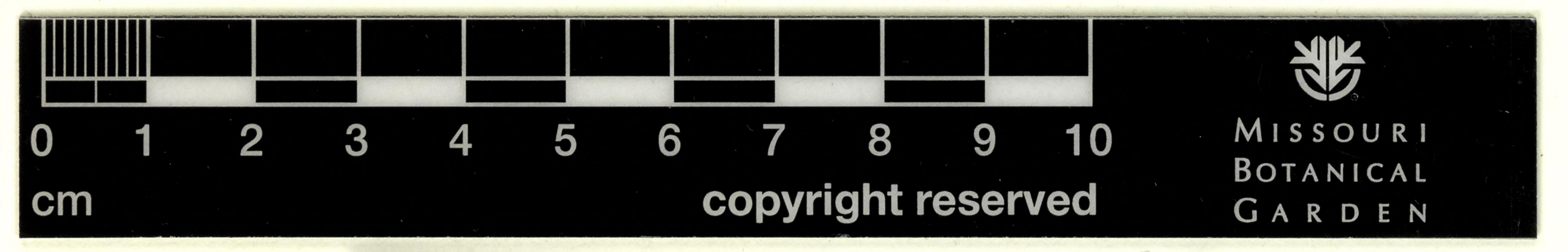


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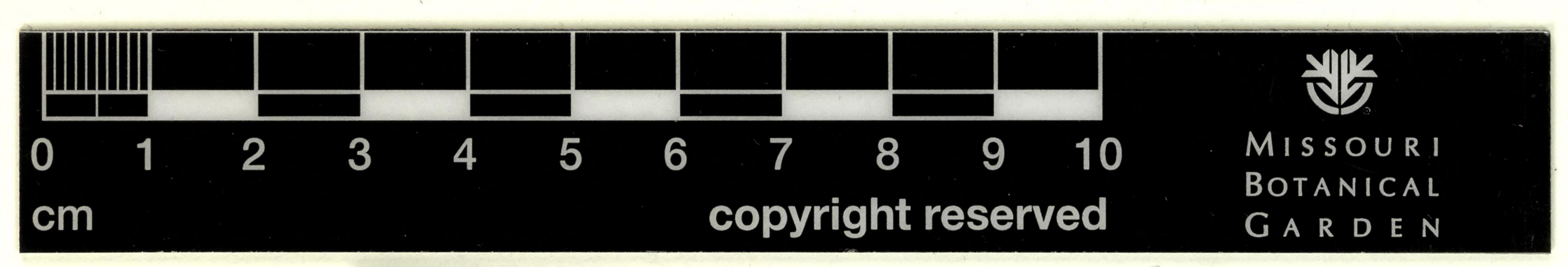
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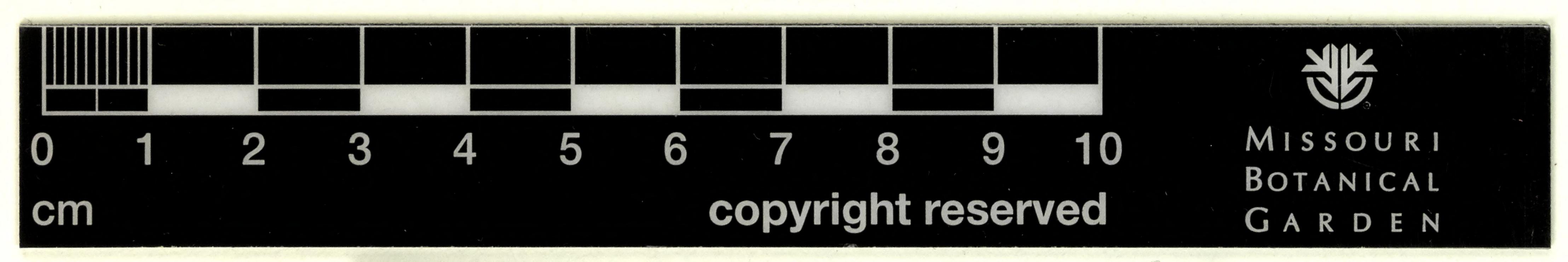


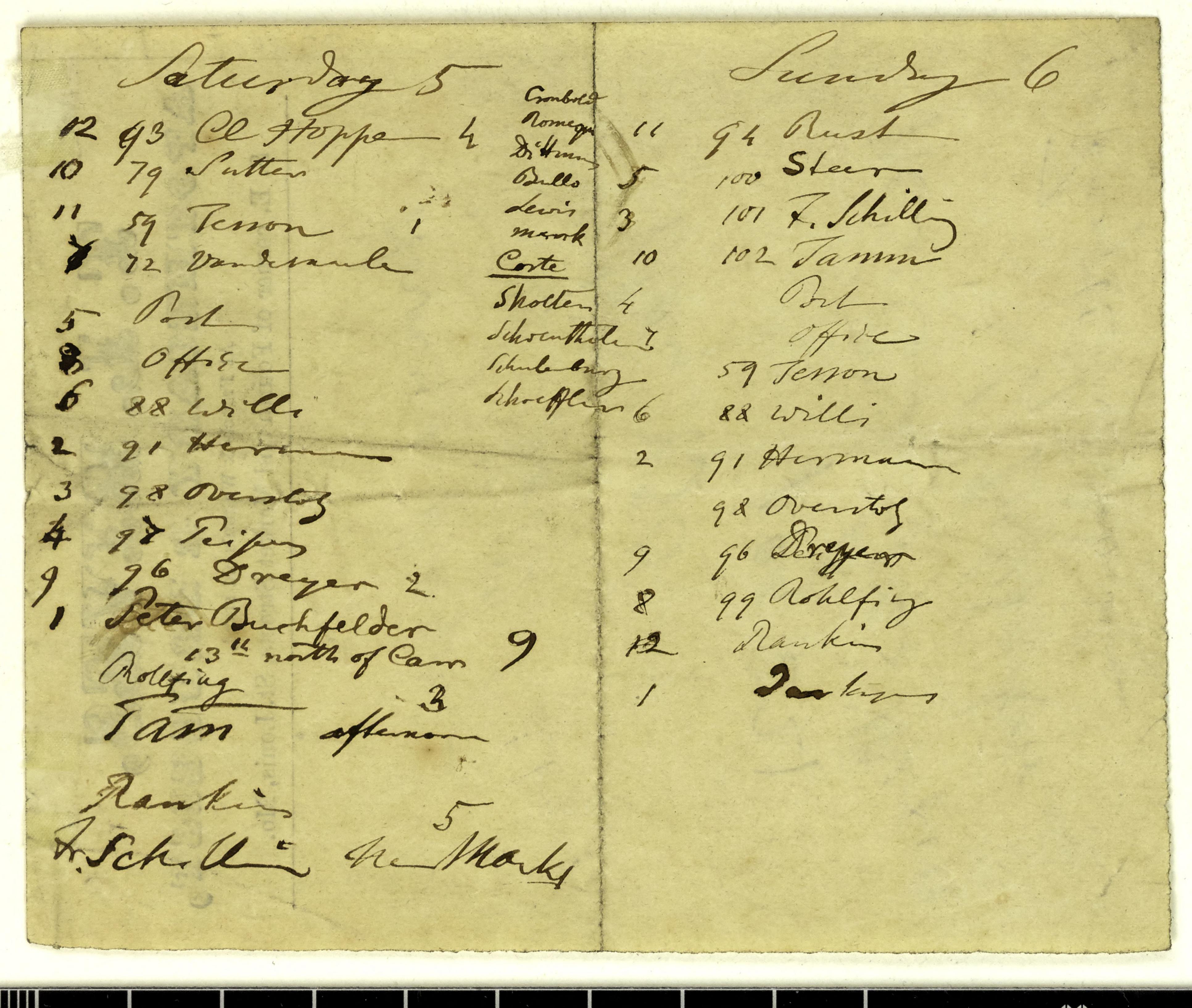


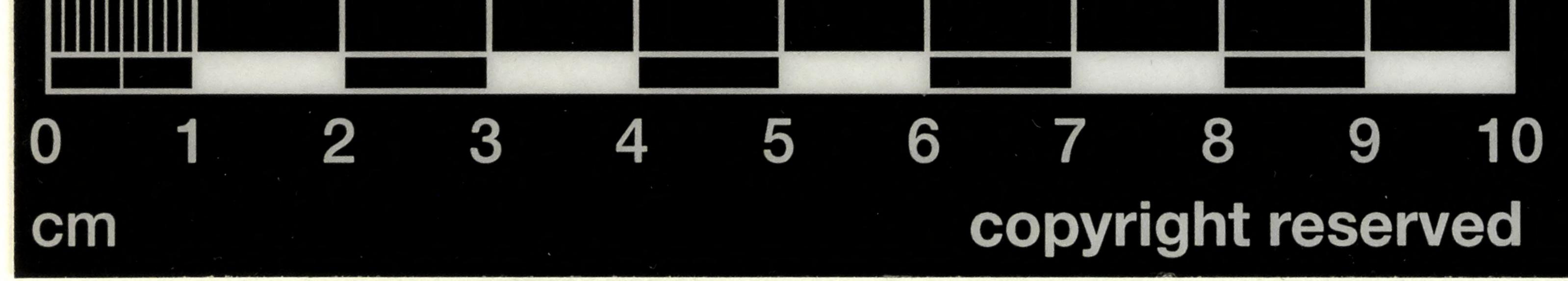
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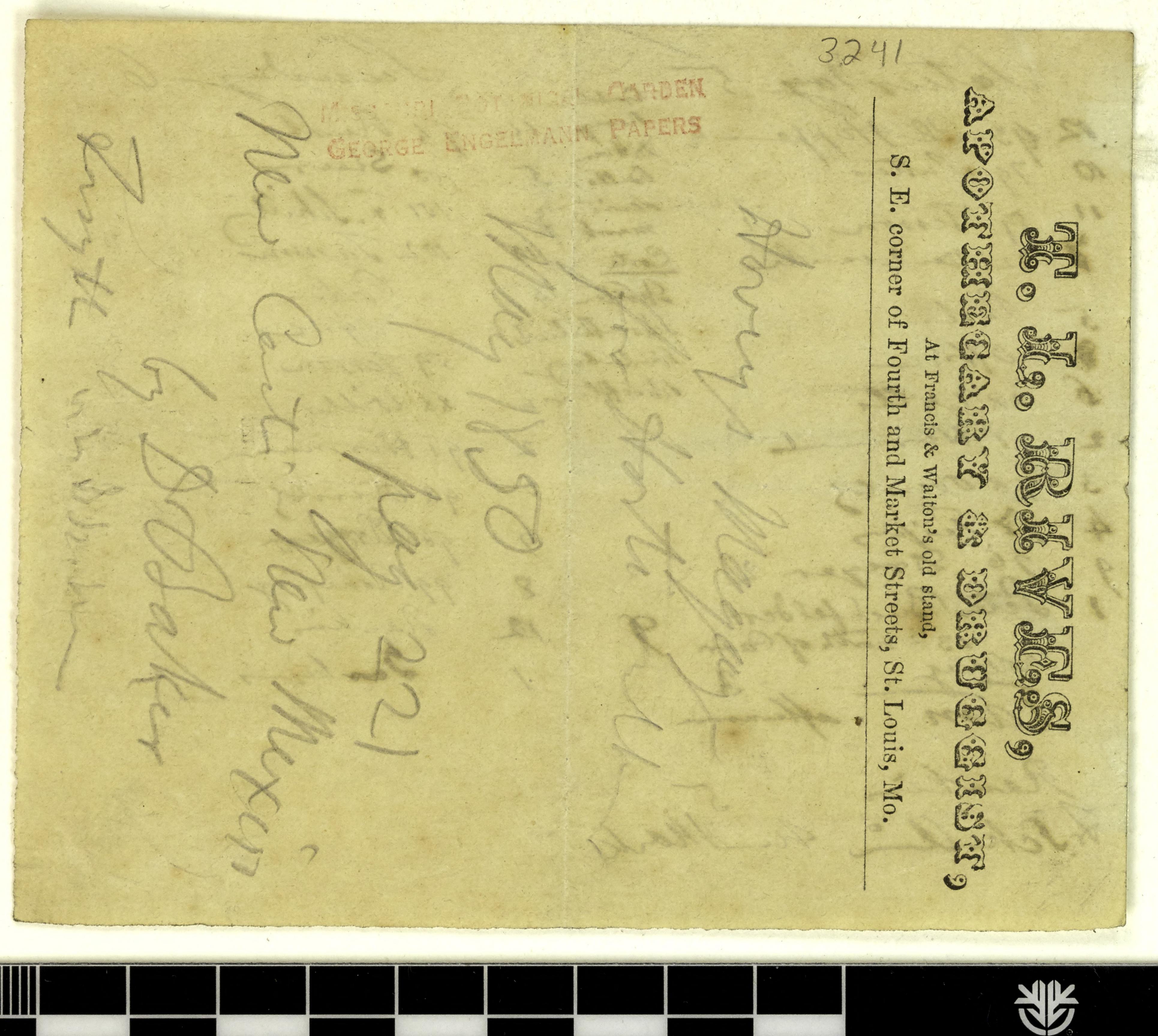


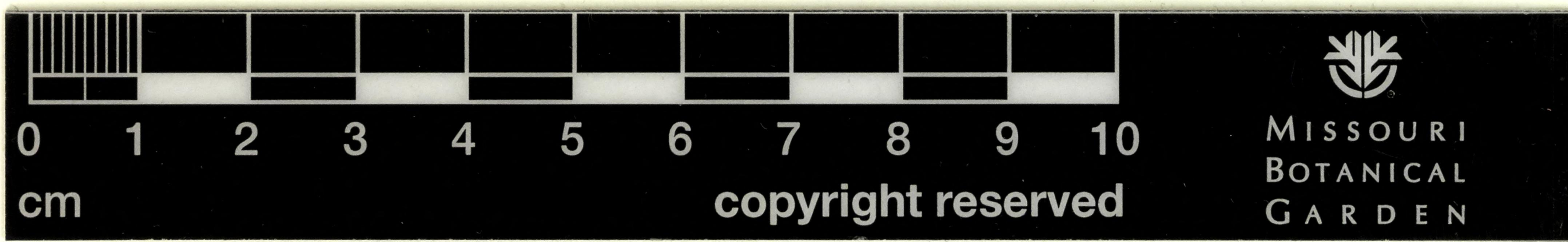




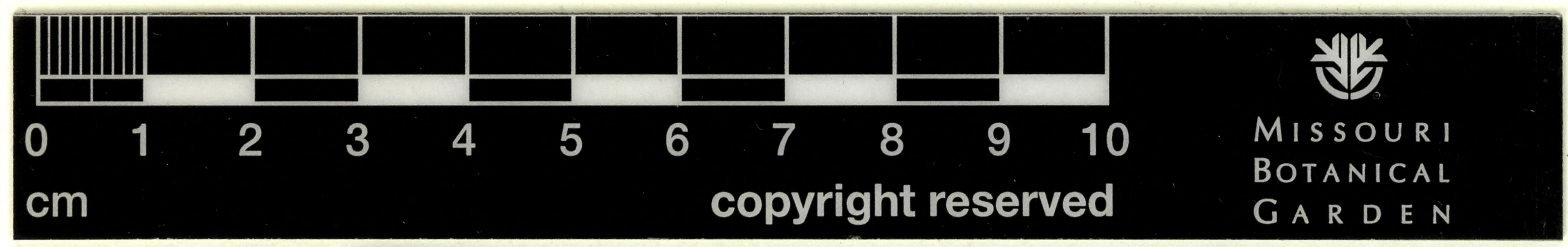


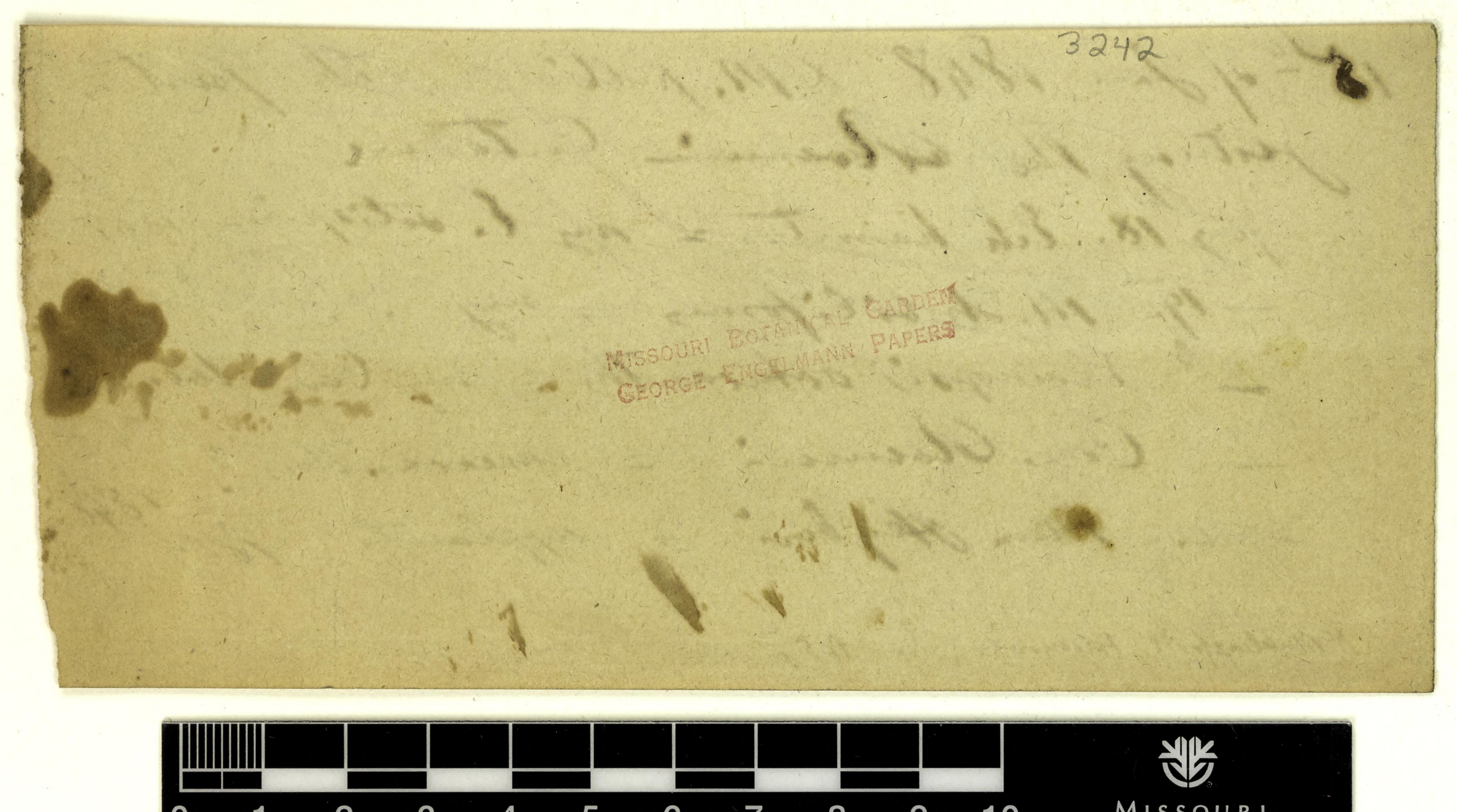


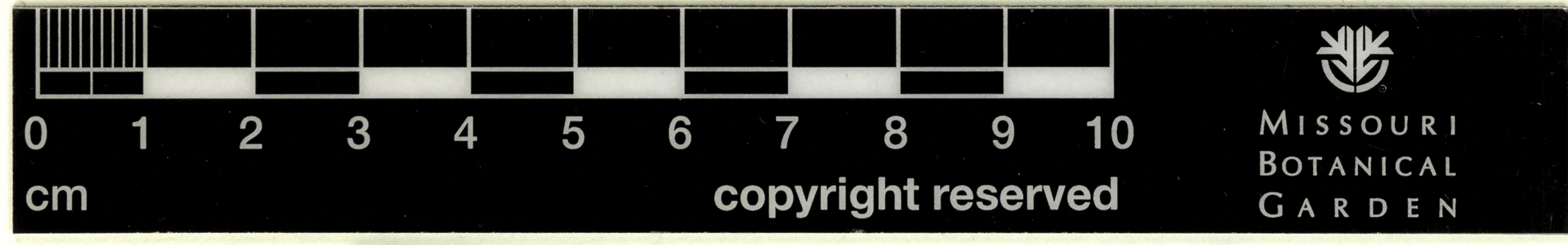




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
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